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**From:** Telisak, Theodore <ttelisak@eaest.com>  
**Sent:** Tuesday, February 17, 2015 5:43 PM  
**To:** Tzhone, Stephen  
**Cc:** Hinckley, Dan  
**Subject:** RE: Outlook account created - case 44761 - Arkwood

Stephen,

In response to Raymond's concerns below: the results still seem to be in line with what we expected.

The cover material was indeed considered likely to be clean, and the results confirm that. I suspect that the higher molecular weight congeners he saw in relative abundance were the ones that do not have as great an impact on receptors (i.e., humans) as some other congeners have, and so those high MW congeners are less heavily weighted in the TEQ calculation. The net effect is this: there can be a lot of high MW congeners and the soil can still be considered clean, as we thought it was likely to be.

Regarding the mixing, in the ITRS Incremental Sampling Methodology (ISM-1), Sections 6.2 and 6.3 go into a fair amount of detail on particle size and how to adjust it. Milling is recommended because under the right circumstances it can reduce variability, reduce subsampling error, and increase precision. ISM-1 also says there are some other acceptable ways to break down the larger particles, such as mortar and pestle or a puck mill. But if I understand the discussion correctly, depending on how the contaminant is situated in the soil matrix, skipping the particle-reduction altogether wouldn't necessarily lead to huge changes in variability and precision, so the data can still be useful.

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**From:** Tzhone, Stephen [mailto:tzhone.stephen@epa.gov]  
**Sent:** Tuesday, February 10, 2015 2:23 PM  
**To:** Telisak, Theodore  
**Subject:** FW: Outlook account created - case 44761 - Arkwood

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**From:** Flores, Raymond  
**Sent:** Tuesday, February 10, 2015 2:16 PM  
**To:** Tzhone, Stephen  
**Subject:** RE: Outlook account created - case 44761 - Arkwood

Stephen,

Also, the samples and duplicates had some healthy levels of the higher MW congeners. I thought one DU was supposed to be from clean cap material? I avoided industrial mixing homogenization equipment to be sure to avoid cross contamination in the lab prep. So I'm wondering if the results make sense.

Raymond Flores  
281 983 2139  
Region 6 Superfund CLP PO  
Region 6 Alt. ESAT PO



DW Certification Officer  
TNI NELAP AB Evaluator

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**From:** Tzhone, Stephen  
**Sent:** Tuesday, February 10, 2015 10:45 AM  
**To:** Flores, Raymond  
**Cc:** Perez, Myra; Hsieh, Ying-Ping  
**Subject:** RE: Outlook account created - case 44761 - Arkwood

Hi Ray,

Wednesday (or anytime this week) would work.

Let us know when it's in OneDrive and we'll test the download!

Thanks,

Stephen L. Tzhone  
Superfund Remedial Project Manager  
214.665.8409  
[tzhone.stephen@epa.gov](mailto:tzhone.stephen@epa.gov)

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**From:** Flores, Raymond  
**Sent:** Tuesday, February 10, 2015 7:47 AM  
**To:** Tzhone, Stephen  
**Cc:** Perez, Myra; Hsieh, Ying-Ping  
**Subject:** FW: Outlook account created - case 44761 - Arkwood

Stephen,

ESAT is working on a second resubmission request sent by the lab and should be able to archive the data files on OneDrive Wednesday. I hope our link to Ted works but if this is not soon enough, I can try to email selected files to him. The lab data file is a large file but I can try to email it to Ted if you wish. I can try to send it to his business and the new outlook email address. Of if there is some other file of interest, let me know.

Raymond Flores  
281 983 2139  
Region 6 Superfund CLP PO  
Region 6 Alt. ESAT PO  
DW Certification Officer

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**From:** Perez, Myra  
**Sent:** Wednesday, February 04, 2015 7:42 AM  
**To:** Flores, Raymond  
**Subject:** FW: Outlook account created - case 44761 - Arkwood

FYI

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**From:** Ted Telisak [<mailto:ttelisak@outlook.com>]  
**Sent:** Tuesday, February 03, 2015 5:11 PM  
**To:** Perez, Myra  
**Cc:** Tzhone, Stephen; [ttelisak@eaest.com](mailto:ttelisak@eaest.com)  
**Subject:** Outlook account created

Myra,

I successfully created an Outlook account. My address is [ttelisak@outlook.com](mailto:ttelisak@outlook.com)